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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/688,938 10/21/2003		Hong Li	Q77917	3199	
23373	7590	02/09/2005		EXAMINER	
SUGHRUE			SALDANO, LISA M		
2100 PENNSYLVANIA AVENUE, N.W. SUITE 800			ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20037			3673	-	
				DATE MAIL ED: 02/09/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Estensions of time many be available under the province of 3 CPR 1.138(a). In no event, however, may a raply be timely filled if the period for reply specified above is less han thirty (00) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  If the period for reply specified above is less han thirty (00) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  If the period for reply specified above is less han thirty (00) days, a reply within the statutory minimum of thirty (30) days, and the period for reply specified above is less han thirty (00) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  If the period for reply specified above is less han thirty (00) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  If the period for reply specified above is less han thirty (00) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  If the period for reply specified to communication.  Status  1) Second in accordance with the practice of the communication, and the provided provided the period of the communication.  2a) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 2-6 is/lare pending in the application.  4a) Of the above claim (s) is/are withdrawn from consideration.  5 Claim(s) is/are allowed.  6 Claim(s) is/are objected to by the Examiner.  7 Claim(s) is/are objected to by the Examiner.  10 The drawing(s) filed on is/are: a) cacepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.121(d).  11 Claim(s) is/are dependent provided provided provided pr		Application No.	Applicant(s)						
Lisa M. Saldano   3673	Office Action Summer	·	LI, HONG						
- The MALING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Estambions of them ray be available under the provisions of 9 CFR 1.13(d). In no event, however, may a raply be timely filed in the period for reply septicible under the provisions of 9 CFR 1.13(d). In no event, however, may a raply be timely filed in the period for reply septicible under the provision of 9 CFR 1.13(d). In no event, however, may a raply be timely filed in the period for reply septicible under the period for reply within the set or extended period for reply will, by statistic period will graph and will eging (k) (MoNTHS from the railing date of this communication. Failure is raply within the set or extended period for reply will, by statistic period in the period for reply will, by statistic period for	Οπice Action Summary	Examiner	Art Unit						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Sentences of time may be available under the proteitions of 37 GFR 1.136(s). In no event, however, may a reply be timely filed  If the period for reply secreted above, the maximum statutory period will apply and will expire SIX (s) (d) days will be considered timely.  If No period for reply is specified above, the maximum statutory period will apply and will expire SIX (s) MONTHS from the mailing date of this communication. The period for reply is specified above, the maximum statutory period will apply and will expire SIX (s) MONTHS from the mailing date of this communication. The period of the communication of the mailing date of this communication, even if timely filed, may reduce any searce patient term adjustment. See 37 GFR 1.704(s).  Status  1) Responsive to communication(s) filed on @B December 2004.  2a) This action is FINAL.  2b) This action is non-final.  3b) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4b) Claim(s) is/are allowed.  6b) Claim(s) is/are allowed.  6b) Claim(s) is/are allowed.  6b) Claim(s) is/are allowed.  7b) The specification is objected to by the Examiner.  10b) The protein frawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11b) are subject to restriction and/or election requirement.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11b) The oath or declaration is objected to by the Examiner.  12c) Certified copies of the priority documents have been received.  21c) Certified copies of the p		l							
THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provision of 3 CFR 1.13(s). In no event, however, may a reply be timely filed after SIX (s) MONTHS from the natiling caste of also communication.  SIX (s) MONTHS from the natiling caste of also communication.  Failure to reply within the authory memory and provided in the communication of the provided in the six (s) MONTHS from the natiling caste of also communication.  Failure to reply within the sor cestened period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office term thin these months after the mailing date of this communication, even if timely fixed, may reduce any camera patient term adjustment. See 37 CFR 1.794(s).  Status  1) Responsive to communication(s) filled on 08 December 2004.  2a) This action is FINAL.  2b) This action is non-final.  3) Isince this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 2-6 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) 2-6 is/are rejected.  7) Claim(s) is/are allowed.  8) Claim(s) is/are objected to by the Examiner.  10) The drawing(s) filed on is/are: a) cocepted or b) objected to by the Examiner.  Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) cocepted or b) dependent of the drawing(s) is objected to. See 37 CFR 1.121(d).  11) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) some 'c) None of:  1. Certified copies of the priority documents have been received in Application No.  3. Copies of the certified copies of the priority documents have been received in Application from the International Bureau (PCT Rule 17.2(a)).  *See t	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
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6) ☐ Claim(s) 2-8 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) is/are objected to restriction and/or election requirement.  Application Papers  9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).     a) ☐ All b) ☐ Some * c) ☐ None of:     1. ☐ Certified copies of the priority documents have been received.     2. ☐ Certified copies of the priority documents have been received in Application No     3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s) 1) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) ☐ Notice of Informal Patent Application (PTO-152)		vn from consideration.							
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Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) Notice of References Cited (PTO-892)  Old Interview Summary (PTO-413)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152)	7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to.							
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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 4-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Duvall et al (5,962,809) in view of Thal (DE-29503619-U1) and Bennett et al (5,106,422).

Duvall et al disclose an apparatus and method for protecting underground cables comprising a protective inverted U-Section channel member 20 that covers cable assembly 12 (see column 3, lines 20-40). Duvall et al disclose that the channel member is made from impact resistant thermoplastic polymers (see column 4, lines 47-59). In the method, Duvall et al disclose that a plurality of channel members are installed in the trench so that the cable assemblies are housed within the confines of the enclosure department defined by the channel member. Duvall et al illustrate interconnecting channel members thereby covering the full length of the cable (see Figs.1&2).

Duvall et al further disclose that the trenches are typically backfilled (see column 1, lines 37-43).

However, Duvall et al fail to disclose that the invention also comprises sidewall projections and a filling compound poured into the groove of a trench for sealing.

Thal discloses an inverted U-section channel member 3 for protecting a conduit or cable 2 in a trench. The sidewalls of the channel member contain projections (see Fig.1)

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the invention of Duvall et al to comprise projections for retaining the channel member in a trench, as taught by Thal. Both the invention of Duvall et al and Thal are functional equivalents in that they protect cable or conduits buried in a trench. The projections taught by Thal enhance the inventions by maintaining the channel member in the trench through friction caused by the projections making the channel members more stable.

Bennett et al disclose a rapid-setting flowable backfill composition that may be used in any backfill situation by electric, gas, telephone; water and sewer utilities (see column 9, lines 9-25).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the invention of Duvall et al to comprise a filling compound that is poured, as taught by Bennett et al because as previously stated, Duvall et al provide motivation for backfilling a trench. Bennett merely provides more detail regarding the options one has to backfill a utility trench that typically contains conduits or cables.

3. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Duvall et al in view of Thal and Bennett et al, as applied to claim 5 above, and further in view of Spiridonov (4,166,710).

Duvall et al, Thal and Bennett et al disclose the inventions described above.

However, Duvall et al, Thal and Bennett et al fail to disclose projections sticking out to the inside as claimed by the application.

Spiridonov discloses a device 2 installed over a pipeline for securing the conduit or pipeline 1 in a groove. The device 2 has the form of a three-walled casing with a top and two sidewalls (see Fig.1). Spiridonov discloses contact shoes 7,8 constitute at least two projections sticking out toward the inside space created by each sidewall.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the invention of Duvall et al to comprise projections that stick out into the insides of the channel member, as taught by Spiridonov, because the inward projections are another means of retaining the cable or conduit inside the channel members at a desired location.

4. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Duvall et al in view of Thal and Bennett et al, as applied to claim 5 above, and further in view of Bonnet (FR-2306051-A).

Duvall et al, Thal and Bennett et al disclose the inventions described above.

However, Duvall et al, Thal and Bennett et al fail to disclose projections sticking outside and upward from each of the sidewalls.

Bonnet discloses an inverted U-Section spring clip 1 or casing mounted over an electric cable 3 that resist clip retraction from the cable mounting block groove 2. The spring clip is capable of being placed into a groove formed into solid ground. The clip has the form of a three-walled casing with a top 1 and two sidewalls 4 (see Figs 1-9). Bonnet discloses that the clip has

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at least two projections 5 sticking outside and upward from each of the sidewalls 4 (see Figs. 3 and 9).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the invention of Duvall et al to comprise disclose projections sticking outside and upward from each of the sidewalls, as taught by Bonnet, because because the outside and upward projections are another means of retaining the cable or conduit inside the channel members at a desired location.

### Response to Arguments

5. Applicant's arguments with respect to claims 2-6 have been considered but are moot in view of the new ground(s) of rejection.

#### Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lisa M. Saldano whose telephone number is 703-605-1167. The examiner can normally be reached on Monday-Friday, 8:30am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Heather C. Shackelford can be reached on 703-308-2978. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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